

Python: module vcs.displayplot

vcs.displayplot

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Display Plot (Dp) module

Modules

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Classes

Dp

class **Dp**

Class: Dp # Display Plot

Description of Dp Class:

The Display plot object allows the manipulation of the plot name priority, template, graphics type, graphics name, and data array.

This class is used to define a display plot table entry used in 'a.plot()' can be used to change some or all of the display plot attributes of an existing display plot table entry.

Other Useful Functions:

a=vcs.init()	# Constructor
a.show('plot')	# Show display plot objects
a.update()	# Updates the VCS Canvas at the end of the update function.
a.mode=1, or 0	# If 1, then automatic update is done at the end of the update function. If 0, then use update function to update the VCS Canvas.

Example of Use:

a=vcs.init()

To Create a new instance of line use:

p1=a.plot(s) # Create a plot object

To Modify an existing plot in use:

p1=a.getplot('dpy_plot_1')

p1.list()

Will list all the display plots.

p1.off=1

"On" or "Off" status, 1=on, 0=off

p1.priority=1

Priority to place plot in front of others.

```
p1.template='quick'          # Name of template object
p1.g_type='boxfill'          # Graphics method type
p1.g_name='quick'            # Graphics method name
p1.array=['a1']               # List of all the array names
```

Methods defined here:

```
__init__(self, parent, Dp_name=None, Dp_name_src='default', createDp=0)
    #####
    #
    # Initialize the display plot attributes.
    #
    #####
setattr(self, name, value)
    #####
    #
    # Set display plot attributes.
    #
    #####
list(self)
    #####
    #
    # List out display plot members (attributes).
    #
    #####
script(self, script_filename=None, mode=None)
    Function:      script                                # Calls _vcs.s
```

Description of Function:

Saves out a display plot object in VCS or Python script designated file.

Example of Use:

script(scriptfile_name, mode)

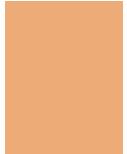
where: scriptfile_name is the output name of the
mode is either "w" for replace or "a" for

Note: If the the filename has a ".py" at the end
Python script. If the filename has a ".scr"
produce a VCS script. If neither extension
default a Python script will be produced.

```
a=vcs.init()
ln=a.createboxfill('temp')
ln.script('filename.py')          # Append to a Python file
ln.script('filename.scr')          # Append to a VCS file "f
ln.script('filename','w')           # Create or overwrite to
```

Functions

```
getDpmember(self, member)
#####
#
# Function:      getDpmember
#
# Description of Function:
#     Private function that retrieves the display plot members f
#     structure and passes it back to Python.
#
#
# Example of Use:
#     return_value =
#         getDpmember(self, name)
#             where: self is the class (e.g., Dp)
#                     name is the name of the member that is being
#
#####
#
renameDp(self, old_name, new_name)
#####
#
# Function:      renameDp
#
# Description of Function:
#     Private function that renames the name of an existing disp
#     object.
#
#
# Example of Use:
#     renameDp(old_name, new_name)
#         where: old_name is the current name of display plot
#                 new_name is the new name for the display plo
#
#####
#
setDpmember(self, member, value)
#####
#
# Function:      setDpmember
#
# Description of Function:
#     Private function to update the VCS canvas plot. If the can
#     set to 0, then this function does nothing.
#
#
# Example of Use:
#     setDpmember(self, name, value)
#         where: self is the class (e.g., Dp)
```



```
#           name is the name of the member that is being
#           value is the new value of the member (or att
#
#####
#####
```

Data

StringTypes = (<type 'str'>, <type 'unicode'>)